

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/007988

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C01F7/36 C01F7/02 C01F7/44 B01J21/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NL 273 221 A (ENGELHARD INDUSTRIES, INC.) 10 September 1964 (1964-09-10)	1-3, 8-10, 13
Y	page 3, line 3 - page 5, line 24; claims page 9, line 11 - line 27; examples VII, VIII	1-13
A	----- POUSKOULELI G: "METALLORGANIC COMPOUNDS AS PRECERAMIC MATERIALS II. OXIDE CERAMICS" CERAMICS INTERNATIONAL, ELSEVIER APPLIED SCIENCE PUBL, BARKING, ESSEX, GB, vol. 15, no. 5, January 1989 (1989-01), pages 255-270, XP000103795 ISSN: 0272-8842 page 255 ----- -/--	1



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

17 June 2005

Date of mailing of the international search report

08/07/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Schut, R

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/EP2004/007988

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SHARMA P K ET AL: "A critical role of pH in the colloidal synthesis and phase transformation of nano size alpha-Al ₂ O ₃ with high surface area" JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, ELSEVIER SCIENCE PUBLISHERS, BARKING, ESSEX, GB, vol. 23, no. 5, April 2003 (2003-04), pages 659-666, XP004400353 ISSN: 0955-2219 page 660, right-hand column, last paragraph	1
A	PH. COLOMBAN: "Structure of oxide gels and glasses by infrared and raman scattering. Part 1 Alumina" JOURNAL OF MATERIALS SCIENCE, vol. 24, 1989, pages 3002-3010, XP002328282 page 3009, right-hand column, paragraph 1	1,8, 11-13
Y	WO 96/34829 A (INSTITUT FUER NEUE MATERIALIEN GEMEINNUETZIGE GMBH; BURGARD, DETLEF; N) 7 November 1996 (1996-11-07) page 5, line 4 - page 13, line 27; claims	1-13
Y	WO 95/12547 A (RWE-DEA AKTIENGESSELLSCHAFT FUER MINERALOEL UND CHEM; NOWECK, KLAUS; SC) 11 May 1995 (1995-05-11) page 4; claims page 6, last paragraph	1-13
X	DE 198 36 821 A (RWE-DEA AG) 24 February 2000 (2000-02-24) claims	11,12
A	DATABASE WPI Section Ch, Week 198704 Derwent Publications Ltd., London, GB; Class E13, AN 1987-026149 XP002332226 & JP 61 283335 A (ASAHI KAGAKU KOGYO KK) 13 December 1986 (1986-12-13) abstract	1
A	DE 24 46 094 A (CONTINENTAL OIL CO.,) 10 July 1975 (1975-07-10)	1,8,13
A	claims	1
A	WO 02/08124 A (INSTITUT FUER NEUE MATERIALIEN GEM. GMBH; DRUMM, ROBERT; GOEBBERT, CHR) 31 January 2002 (2002-01-31) page 4, line 4 - line 13 page 6, line 1 - line 3	1,8, 11-13

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/007988

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
NL 273221	A		NONE	
WO 9634829	A	07-11-1996	DE 19515820 A1 DE 59608679 D1 WO 9634829 A1 EP 0823885 A1 JP 11504311 T US 5935275 A	31-10-1996 14-03-2002 07-11-1996 18-02-1998 20-04-1999 10-08-1999
WO 9512547	A	11-05-1995	DE 4337643 C1 AU 7690394 A WO 9512547 A1 DE 59409056 D1 EP 0726877 A1 US 6030599 A	03-08-1995 23-05-1995 11-05-1995 10-02-2000 21-08-1996 29-02-2000
DE 19836821	A	24-02-2000	DE 19836821 A1 WO 0009445 A2 EP 1025045 A2 JP 2002522343 T US 6773690 B1 US 2005019249 A1 ZA 200001778 A	24-02-2000 24-02-2000 09-08-2000 23-07-2002 10-08-2004 27-01-2005 09-01-2001
JP 61283335	A	13-12-1986	JP 1885811 C JP 6008171 B	22-11-1994 02-02-1994
DE 2446094	A	10-07-1975	DE 2446094 A1 JP 50101290 A	10-07-1975 11-08-1975
WO 0208124	A	31-01-2002	DE 10035679 A1 AU 8200301 A WO 0208124 A2 EP 1301434 A2 JP 2004504256 T US 2003098529 A1	31-01-2002 05-02-2002 31-01-2002 16-04-2003 12-02-2004 29-05-2003